

SEMINARIO SISTEMAS DINÁMICOS DE SANTIAGO

EXPOSITOR(A): Julien Boulanger (Université Grenoble Alpes/Institut Fourier)

TÍTULO: *Algebraic intersections in translation surface.*

IDIOMA : Inglés

RESUMEN: The purpose of this talk is to discuss the maximal possible (algebraic) intersection of closed curves of a given length on translation surfaces. One way to quantify this is to define the so-called "interaction strength" of the surface. The (moduli) space of translation surfaces comes with a natural $SL(2, \mathbb{R})$ -action and we are interested in understanding the behaviour of the interaction strength under this action.

After having introduced translation surfaces and the $SL(2, \mathbb{R})$ -action, we will give a few geometric ideas and focus on the case of the Golden L for which we can explicitly describe the behaviour of the interaction strength in the $SL(2, \mathbb{R})$ -orbit.

DÍA / HORA Lunes 6 de mayo, 2024 / 16:30 - 17:30

LUGAR Sala de Seminarios (7° Piso), Facultad de Ciencias Físicas y Matemáticas, Universidad de Chile